

Supplementary File 1. Variable definition, year and data source

S/N	Variables	Operational Definition	Year	Data Source	Number of reporting countries
1.	Dependent Maternal Mortality Ratio (per 100,000 live births)	Maternal mortality ratio (MMR) was defined and computed as the number of women per 100,000 live births who died from pregnancy-related causes during pregnancy or within 42 days of pregnancy termination	2017	https://data.worldbank.org/indicator/SH.STA.MMRT	54
Independent Socio-economic/ cultural factors					
2.	GNI per capital (Atlas method)	Gross national income, converted to U.S. dollars using the World Bank Atlas method, divided by the midyear population	2017	https://data.worldbank.org/indicator/NY.GNP.PC.AP.CD	53
3.	Income inequality (Gini coefficient)	Measured income inequality, where the lowest possible value is zero and the highest being 100, when there is more concentration of wealth.	2016	http://wdi.worldbank.org/table/1.3#	46
4.	Population living in urban areas (%)	The percentage of de facto population living in areas classified as urban according to the criteria used by each area or country as of 1 July of the year indicated.	2010	http://apps.who.int/gho/data/node.main.URBPOP?lang=en	56
5.	Gender Inequality index	Measures of gender disparity in the 3 dimensions of reproductive health, empowerment and labor market: the lowest	2018	http://www.hdr.undp.org/en/composite/GII	54
6.	Population of females with at least some secondary education (%)	Percentage of females aged ≥ 25 years who had at least some secondary education	2010-2017	http://www.hdr.undp.org/en/composite/GII	54
7.	Poverty rate (%)	Percentage of 2007 population living 2013 below \$1.25 a day (extreme poverty)		http://apps.who.int/gho/data/node.main.POP107?lang=en	49
8.	Crude birth rate (per 1000 population)	Annual number of live births per 1,000 population.	2013	http://apps.who.int/gho/data/node.wrapper.imr?x-id=2978	54
9.	Total alcohol per capita consumption 2016 (Litres of pure alcohol per person (15 years or older) per year)	Total (sum of recorded and unrecorded alcohol) amount of alcohol consumed per person (15 years of age or older) over a calendar year, in liters of pure alcohol, adjusted for tourist consumption	2016	http://apps.who.int/gho/data/node.main.SDG35?lang=en	56
10.	Prevalence of current tobacco smoking among female, age-standardised (%)	The percentage of the population aged 15 years and over who currently use any tobacco product (smoked and/or smokeless tobacco) on a daily or non-daily basis	2013	http://apps.who.int/gho/data/node.main.1250?lang=en	46
Healthcare resources					

11.	Current health expenditure (CHE) as percentage of gross domestic product (GDP) (%)	Level of Current Health Expenditure expressed as a percentage of GDP	2015	http://apps.who.int/gho/data/view.main.GHEDCHEGDPSHA2011v?lang=en	50
12.	Skilled health professional's density (per 10 000 population)	The total number of physicians, nursing and midwifery personnel per 10,000 population	2008-2016	http://apps.who.int/gho/data/node.main.HWF10?lang=en	46
Maternal conditions					
13.	Prevalence of anaemia in pregnant women (%)	Percentage of women aged 15–49 years with a haemoglobin concentration less than 110 g/L for pregnant women, adjusted for altitude and smoking.	2016	http://apps.who.int/gho/data/node.main.ANEMIA1?lang=en	54
14.	Syphilis seropositivity among antenatal care attendees (%)	Percentage of antenatal care attendees who tested positive for syphilis.	2010-2017	http://apps.who.int/gho/data/node.main.A1359STI?lang=en	49
15.	Prevalence of obesity among female adults (%)	Percentage of female adults (≥18 years) with a body mass index (BMI) 2 of ≥30 kg/m . (age-standardized)	2016	http://apps.who.int/gho/data/node.main.A900A?lang=en	53
16.	Prevalence of underweight among female adults (%)	Prevalence of underweight among female adults (%)	2015	http://apps.who.int/gho/data/view.main.NCDBMILT18Av	50
17.	Prevalence of hypertension among female adults (≥18 years) (%)	Percent of defined population with raised blood pressure (systolic blood pressure ≥ 140 OR diastolic blood pressure ≥ 90).		http://apps.who.int/gho/data/view.main.2464EST	53
18.	Prevalence of diabetes mellitus among female adults (≥18 years) (%)	Percent of defined population with fasting glucose ≥126 mg/dl (7.0 mmol/l) or history of diagnosis with diabetes or use of insulin or oral hypoglycemic drugs.	2014	http://apps.who.int/gho/data/view.main.2469	53
19.	Antenatal care coverage - at least four visits (%)	Percentage of women aged 15- 49 with a live birth in a given time period that received antenatal care four or more times.	2016	http://apps.who.int/gho/data/node.main.ANTENATALCARECOVERAGE4?lang=en	49
20.	Births attended by skilled health personnel (%)	Percentage of births attended by skilled health personnel (i.e. doctors, nurses or midwives)	2016	http://apps.who.int/gho/data/node.main.SKILLED BIRTHATTENDANTS?lang=en	54
21.	Births by caesarean section (%)	Percentage of births by caesarean section among all live births in a given time period. Measured access to emergency care	2016	http://apps.who.int/gho/data/viewmain.BIRTHSBYCAESAREANv	47

22.	Adolescent birth rate (per 1000 women aged 15-19 years)	The annual number of births to women aged 15- 19 years per 1,000 women in that age group. It is also referred to as the age-specific fertility rate for women aged 15- 19	2016	http://apps.who.int/gho/data/node.main.REPAD039?lang=en	54
23.	Family planning needs satisfied (%)	Proportion of married or in-union women of reproductive age (aged 15-49 years) who have their need for family planning satisfied with modern methods	2016	http://apps.who.int/gho/data/view.main.GSWCAH30v	48